



Installation guidelines for Nokia Car Kit CK-300

NOKIA

Contents

Purpose of these guidelines	03
Product overview	04
Installation guidelines	
Sales package content	06
Connectors	08
Options of installation, I	09
Options of installation, II	10
Options of installation, III	11
Overview	12
Various connections	14
Mute box	15
Car sound system phone-in	16
Dedicated speaker	17
Recommended placement of components	18
Installing the microphone close to the rear mirror	20
Alternatives	21
A2DP and AUX-in installation	22
Music connectivity solution overview	24
Setup and check	26
Troubleshooting	
Sound	28
Bluetooth connection	29
Appendix	
Power supply 1	32
Power supply 2	33
Operation with CarMenu	34

Purpose of these guidelines

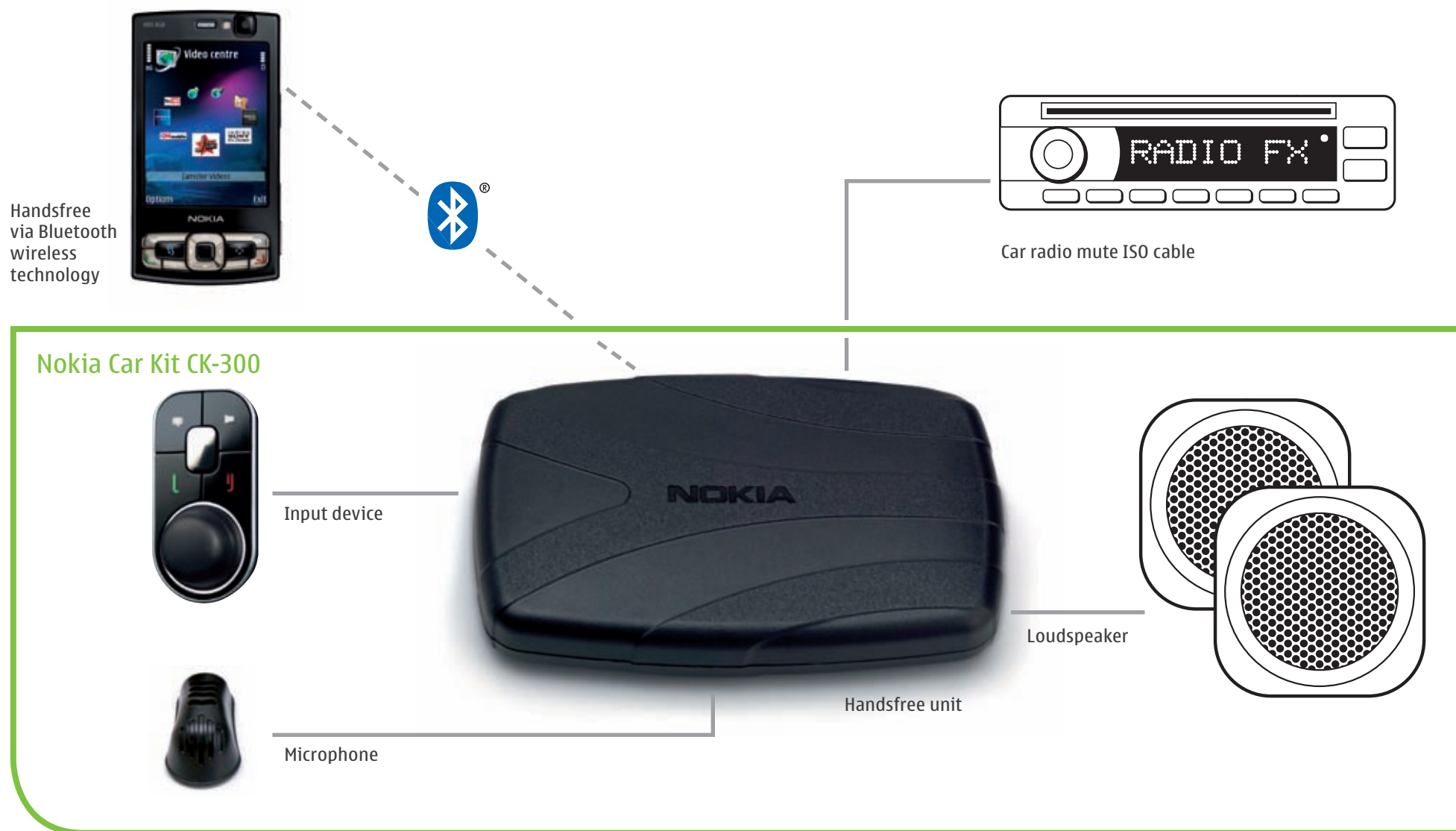
To provide the technical background information needed for carrying out professional installation.

Only a qualified service technician should install or service the car kit using the approved original Nokia parts supplied in the sales package. Faulty installation or service may be dangerous and may invalidate any warranty which may apply to the car kit. End-users should remember that the car kit comprises complex technical equipment that requires professional installation using special tools and expert know-how.

Instructions given in this guide are general guidelines which apply for the installation of the car kit in an automobile. However, due to the wide variety of car types and models available on the market, this guide cannot consider the individual technical requirements relevant for any particular vehicle. Contact the vehicle manufacturer for detailed information about the vehicle in question.



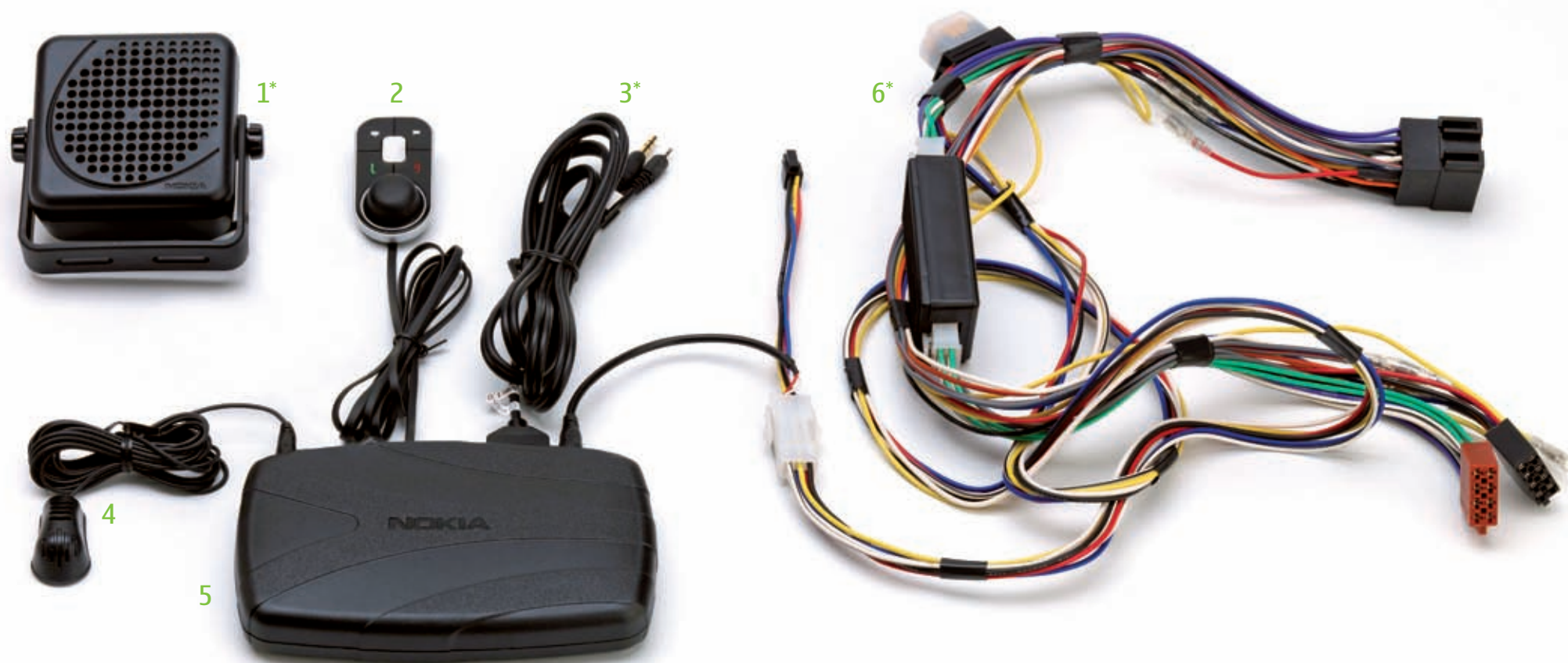
Product overview



06 Sales package content

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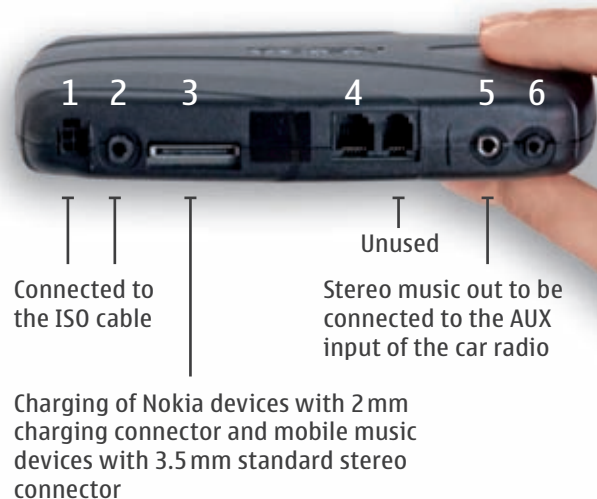
- 1. Loudspeaker SP-3*
- 2. Remote control CU-10
- 3. Audio/Charging cable CA-113CU*
- 4. Microphone MP-2
- 5. Handsfree unit HF-21W
- 6. ISO power cable CA-139*



* Depends on sales package variant

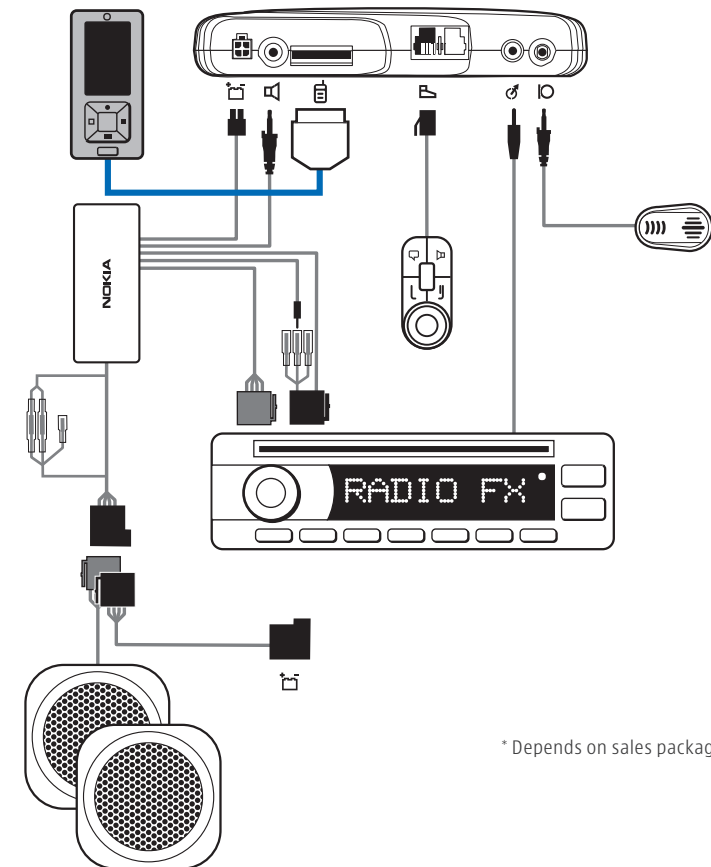
Connectors

1. Power cable
2. Speaker
3. Mobile device
4. Remote control
5. Stereo music out
6. Microphone



Options of installation, I

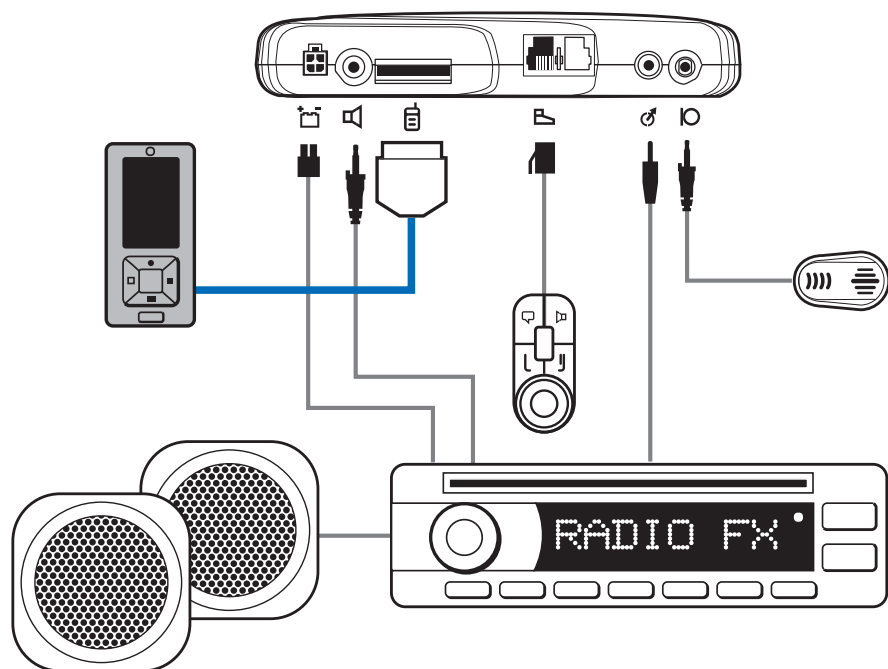
- Connect the car kit to the stereo system via ISO cable*
- For music connect the stereo music output of the handsfree unit (a standard 3.5-mm stereo connector) to the AUX input of the car radio. Use an appropriate cable specific to your car radio (this cable is not supplied with the car kit)
- Enjoy good handsfree and music audio quality from the car stereo system



* Depends on sales package variant

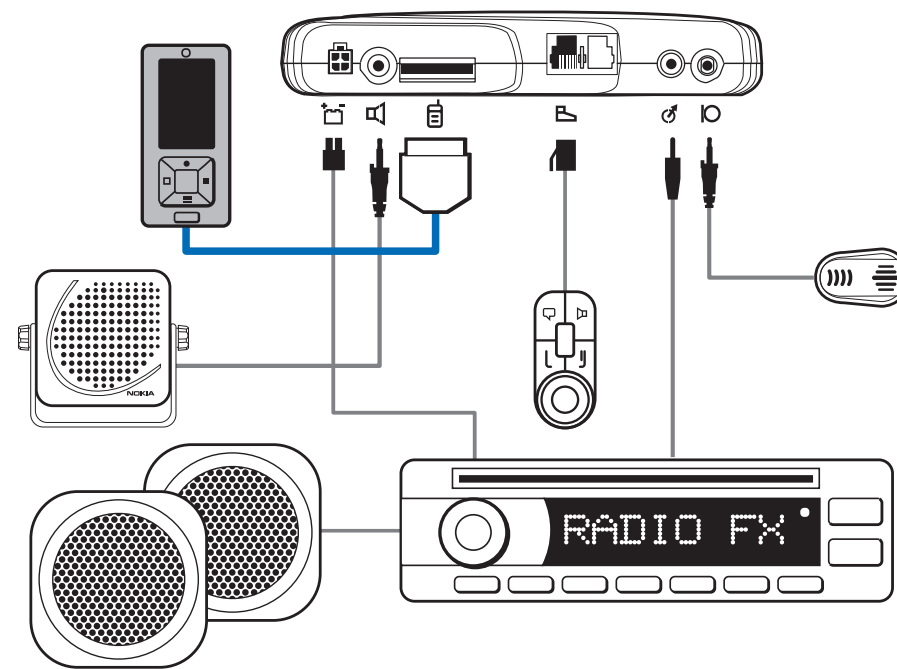
Options of installation, II

- Connect the car kit to the stereo system via phone-in
- For music connect the stereo music output of the handsfree unit (a standard 3.5-mm stereo connector) to the AUX input of the car radio. Use an appropriate cable specific to your car radio (this cable is not supplied with the car kit)
- Enjoy good handsfree and music audio quality from the car stereo system



Options of installation, III

- Use the external speaker SP-3 for handsfree*
- For music connect the stereo music output of the handsfree unit (a standard 3.5-mm stereo connector) to the AUX input of the car radio. Use an appropriate cable specific to your car radio (this cable is not supplied with the car kit)
- Enjoy good music audio quality from the car stereo system



* Depends on sales package variant

Overview



Connection options



Installation and placement of components in the car



Cable connections to the car kit



14 Various connections

In order to ensure correct car sound system mute, audio volume behaviour and voice must be handled differently.

Overview of connection options:



Mute box*
(included in
the ISO cable)

Phone-in



Speaker*



* Depends on sales package variant

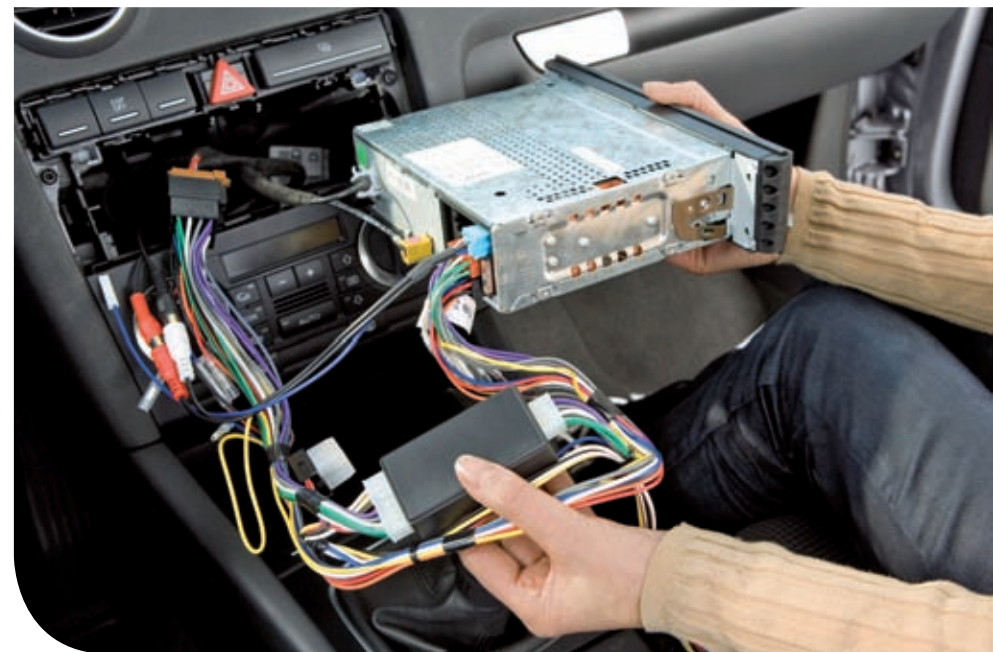
Mute box

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- Mute box switches from car radio to car kit and back
- Voice signal from the audio-out of the handsfree to mute box
- Mute signal from power cable to mute box

Cables/Adapters needed:

- Adapter from ISO to proprietary connector for car sound system and speaker may be required



Car sound system phone-in

- Voice signal from the audio-out of the handsfree to phone-in port of the car sound system
- Mute signal from power cable to car sound system

Cables/Adapters needed:

- Adapter cable from the audio-out of the hands-free unit to the phone-in of the car sound system (e.g. simply cut the cable of the speaker included in the sales package)



Dedicated speaker

- Voice signal from the audio-out of the handsfree to speaker (cable permanently attached to speaker)
- Mute signal from power cable to car sound system

Cables/Adapters needed:

- Connector to transmit mute signal to car sound system may be required (e.g. mini-ISO, Fakra)



Recommended placement of components



Microphone

Best place is near the rear mirror pointing to the driver's mouth



Handsfree unit

Control unit should be secured behind interior panel



Input device

Best place is on the centre console within reach



Installing the microphone close to the rear mirror

- Best place for installation is near the rear mirror
- Use the Velcro tape to properly fix the microphone
- Optimum performance is gained when the microphone points to the driver's mouth

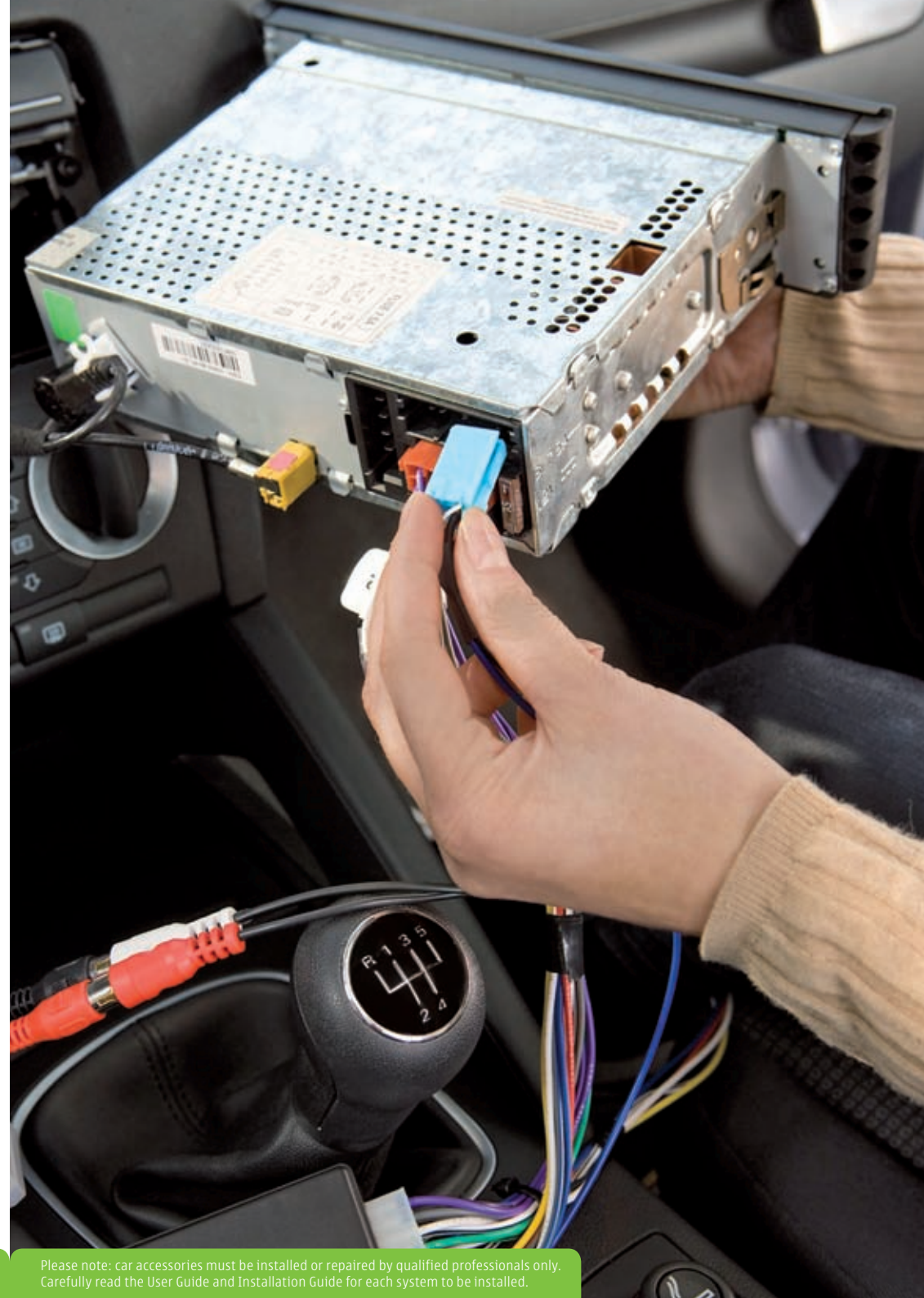
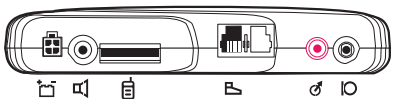


- Best place for installation is close to the rear mirror
- It is also possible to install the microphone at the A-pillar (when driving with open window, noise might disturb the phone conversation at the other side)

- In both situations best performance is reached when the microphone points to the speaker's mouth
- To avoid echoes microphone should point in a different direction rather than to the loudspeaker

A2DP and AUX-in installation

- An audio line-in connection on the radio system is needed to listen to stereo music streamed from the mobile music device to the car kit via Bluetooth
- A radio-specific third-party cable is needed to connect the car kit to the car stereo system (not included in the sales package of CK-300)
- Connect the standard 3.5 mm audio connector to the handsfree unit of the car kit
- Connect the radio-specific connector to the car stereo system. Refer to the manual of the car radio for guidance
- Examples for radio-specific cables of various manufacturers can be found on the following pages



Music connectivity solution overview

Radio vendor	Music	Telephony	Comment
Alpine	<ul style="list-style-type: none"> • KCA-121B plus standard 3.5 mm/cinch cable 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/cinch cable can be purchased from all electronics mass market stores
Blaupunkt	<ul style="list-style-type: none"> • AK ISO 8 cable/3.5 mm plug • Standard cable 3.5 mm/3.5 mm to front panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/3.5 mm cable can be purchased from all electronics mass market stores
JVC	<ul style="list-style-type: none"> • KS-U58 • Standard cable 3.5 mm/3.5 mm to front panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/3.5 mm cable can be purchased from all electronics mass market stores
Kenwood	<ul style="list-style-type: none"> • CA-C2AX (AUX adaptor cable/ 3.5 mm plug) 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	

This overview is provided for your convenience and information only. It has been compiled from external sources and is subject to change. Nokia does not guarantee the compatibility of Nokia Car Kit CK-300 and non-Nokia products. Nokia warranty and support apply only to products that are sold under the Nokia trademark. References to third-party products do not constitute any endorsement of or warranty as to such products. Further information may be obtained from each radio manufacturer's website.

Radio vendor	Music	Telephony	Comment
Panasonic	<ul style="list-style-type: none"> • Standard cable 3.5 mm/3.5 mm to front panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/cinch cable can be purchased from all electronics mass market stores
Pioneer	<ul style="list-style-type: none"> • Standard cable 3.5 mm/3.5 mm to back panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/3.5 mm cable can be purchased from all electronics mass market stores
Siemens VDO	<ul style="list-style-type: none"> • Standard cable 3.5 mm/3.5 mm to front panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/3.5 mm cable can be purchased from all electronics mass market stores
Sony	<ul style="list-style-type: none"> • Standard cable 3.5 mm/cinch to back panel • Standard cable 3.5 mm/3.5 mm to front panel 	<ul style="list-style-type: none"> • Nokia ISO cable and adaptor cables from e.g. • Kram • Elan Europe • Autoleads 	Standard 3.5 mm/3.5 mm and 3.5 mm/cinch cable can be purchased from all electronics mass market stores

Bullet points describe possible options. They depend on the specific car radio model.

Setup and check

- Check all cable connections to the car kit
- Check Bluetooth connection to a mobile phone

Functions to check	How to check?
Power, IGNS	Switch on/off: Navi™wheel illumination should switch on and off
Input device	Switch IGNS key on: Navi™wheel should be illuminated
Bluetooth connection to phone	Check from phone whether car kit is connected
Car sound system mute	Place call while playing radio/CD
Audio connection to car	Place call to the phone connected to the car kit
Microphone	Place call and listen at other end



Sound

- In case echoes can be heard at the far end, tune speaker volume down
 - Check that distance between microphone and speakers is as great as it could be
 - Check that the microphone is not directly pointing to the speaker
 - Check to ensure that phone is connected to car kit using Bluetooth technology
- For phone-in, check that mute signal is connected properly
- Check that the loudspeaker is not muted
- Check that the car kit microphone is not muted
- Determine whether the phone model is included in the compatibility list in the support area for the car kit at www.europe.nokia.com/ck-300

Bluetooth connection

- Ensure that phone's Bluetooth feature is activated
- Make sure no other phone is connected to the car kit
- Ensure that phone is set to connect to the car kit automatically when the car kit is switched on





Power supply 1*

Power cable

Identify the terminals for connecting the four wires that make up the cable harness of the car kit

Main supply (red) wire:

The main supply wire must be connected to a main supply terminal. To do so, locate a main supply terminal/wire with a constant +12 V power supply. These are available at the:

- car battery
- fuse box
- car sound system

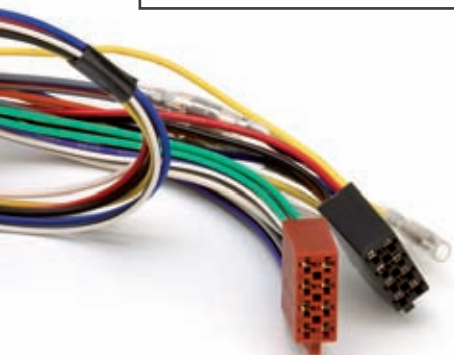
Ignition-sensing (blue) wire:

To activate the ignition-sensing functionality, the ignition-sensing wire must be connected to either of the following:

- the ignition-sensing wire/terminal in the fuse box
- the sound system position-sensing terminal/wire located behind the sound system

Some vehicles do not come equipped with an IGNS connection. This connection is not necessary for operation of the Nokia Car Kit CK-300. The blue wire can be left unconnected.

*** Please note:** This information is valid only for the variant with the use of the power cable PCU-4 together with the speaker or phone-in. When using the ISO cable variant this whole page can be ignored.



Power supply 2

Power cable

Identify the terminals for connecting the four wires that make up the cable harness of the car kit

Ground (black) wire

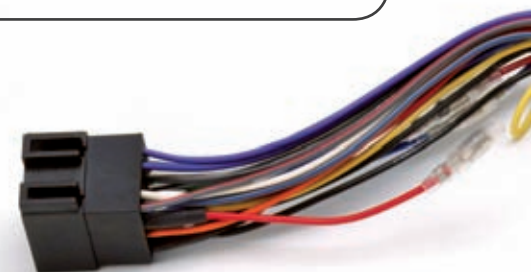
The system must be connected to a ground point on the chassis of the car. Generally, a ground point can be found:

- near the battery
- near the fuse box
- under the glove compartment

Sound system mute (yellow) wire:

Nokia Car Kits offer a feature that mutes the car sound system automatically during phone calls. To activate this feature, connect the mute wire to the mute terminal on the car sound system, if available.

If the radio does not support the mute feature, use a relay to provide the feature (with the customer's consent). Read the car sound system manual before touching any wires behind the unit.



Operation with CarMenu

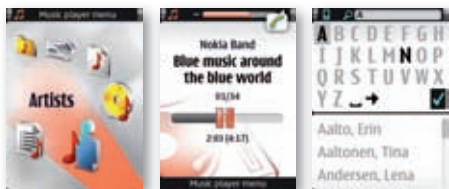
If you want to operate the car kit through a user interface optimised for car use, download the CarMenu application from the product page at www.nokia.com or your local Nokia website, and install the application on your compatible mobile device.

You can use the Nokia Maps application with CarMenu if Nokia Maps is installed on your mobile device.

Install CarMenu


For the installation, you may need the administrator rights for your PC. You also need the following:

- A compatible mobile device based on Series 60 version 3.0 (or higher)
The device must support the Bluetooth specification and profiles described in the user and installation guide
- An Internet connection from your PC or mobile device. Contact your service provider for information about data transmission charges
- Three megabytes of free memory in your mobile device
- The USB cable that is supplied with your mobile device
- A compatible PC with the Windows XP or Windows Vista operating system



To install CarMenu to your mobile device, do the following:

1. If you want to install CarMenu on a compatible memory card that you use with your mobile device, insert the card in the device.
2. If you use a PC for the Internet connection, place the supplied CD-ROM in the CD-ROM drive (or a compatible DVD drive) on your PC, and select the CarMenu download option in the program that starts automatically (if the CD-ROM autorun feature is set to „on“ in Windows). Follow the displayed instructions to download the CarMenu installation file from the Nokia website to the PC, and copy the file from the PC to your mobile device or the memory card inserted in it. You can also download the file from the product page at www.nokia.com or your local Nokia website without using the CD-ROM.
- If you use the web browser of your compatible mobile device for the Internet connection, download the CarMenu installation file from the product page at www.nokia.com or your local Nokia website to your mobile device or the memory card inserted in it.
3. Start the installation as described in the user guide of your mobile device, and follow the instructions shown in the installation program.
4. To launch the CarMenu application, switch on the car kit.



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www.europe.nokia.com/ck-300

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